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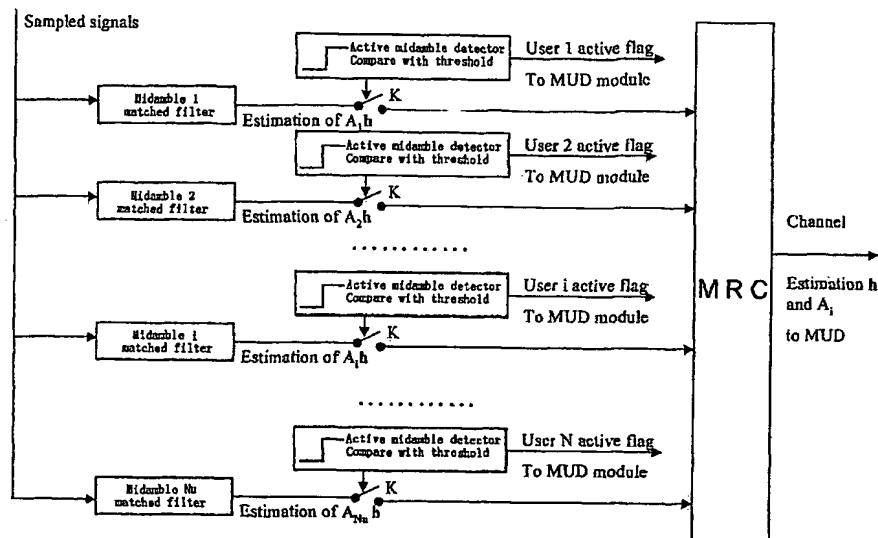
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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **WANG, Dong** [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu Xi Road, 200070 Shanghai (CN). **XU, Luzhou** [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu Xi Road, 200070 Shanghai (CN).
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(54) Title: TRAINING SEQUENCE DETECTION SCHEME AND DEVICE OF DOWNLINK IN TDD/CDMA SYSTEM



(57) Abstract: This invention provides a detection method and device for the training sequence in a downlink TDD/CDMA system. In some TDD/CDMA systems, Multi-user detection (MUD) can be applied in UE, but the conventional training sequence detection method is of great complexity. This invention is to perform matched filter operation on the training sequence of the desired users at all possible positions to get the adaptive threshold values detecting training sequence intensity and the multi-path positions, which correspond to the output peak values of the matched filter. Afterwards it performs the matched filter operation for other possible training sequences only at those peak positions mentioned above. This invention uses adaptive threshold value to detect the training sequence intensity, and the algorithm is improved greatly.